

KALININ, Yu.D., doktor fiziko-mat. nauk, otv. red.; KURYKOVA, M.F.,  
red.; NOVICHKOVA, N.D., tekhn. red.

[Collection of articles]Sbornik statei. Moskva, Izd-vo Akad.  
nauk SSSR. No.1.[Magnetic and ionospheric disturbances]Magnitno-  
ionosferye vozmushcheniia. 1959. 72 p. (MIRA 15:10)

1. Akademiya nauk SSSR. Mezhdunarodnyy komitet po preve-  
deniyu Mezhdunarodnogo geofizicheskogo goda. III i V razdel'  
programmy MGG: Zemnoi magnetizm i zemnye toki, ionosfera.  
(Magnetic storms) (Ionosphere)

KURYKOVA, H.F.

Fifth Assembly of the Special Committee for the International  
Geophysical Year. Mezhdunar. geofiz. god no.6:310 '59.

(MIRA 12:11)

(International Geophysical Year 1957-1958)

KALININ, Yu.D., doktor fiziko-matem.nauk, otv.red.; KURYKOVA, M.P.,  
red.; MAKUNI, Ye.V., tekhn.red.

[Disturbances of the earth's electromagnetic field; collection  
of articles] Vozmushchenia elektromagnitnogo polia zemli;  
sbornik statei. III razdel programmy MGG (zemnoi magnetizm i  
zemnye toki). Moskva. No.2. 1960. 68 p. (MIRA 13:12)

1. Akademiya nauk SSSR. Mezhdunarodnyy komitet po provedeniyu  
Mezhdunarodnogo geofizicheskogo goda.  
(Magnetism, Terrestrial) (Earth currents)

KURYL, Milán, inz.

Mechanized loading and unloading of airplanes. Letecký obzor 6 no.10:  
314-317 '62.

KURLAS, S.

KURLAS, S. Charging cranes and industrial safety. p. 255. Vol. 12, no. 11, Aug. 1956. CEMENT, WAFNO, GIPS. Krakow, Poland.

SOURCE: East European Accessions List (EEAL), Vol. 6, No. 4--April 1957

KURYLAS, Stefan, mgr. inż.

The Central Designing Office of Chemical Apparatus.  
Przegl mech 21 no.9/10:304-306. 10-25 My '62.

1. Centralne Biuro Konstrukcji Aparatury Chemicznej, Krakow.

ZWIERZYNSKI, Tadeusz; KORYLCIO, Lucjan

A syndrome of abnormalities in a 7-month-old human fetus.  
Folia morph. (Warsz.) 24 no.3:311-316 '65.

1. Z Zakladu Anatomii Prawidlowej Szlowieka AM w Lublinie  
(Kierownik: prof. dr. M. Stelmasiak).

KURYLEV, A.K.

Work is the major factor in the development of Soviet society.

Sots.trud no.6:20-28 Je '57.

(MLRA 10:7)

(Labor and laboring classes) (Work)



KURYLEV, Anatoliy Konstantinovich, kand. filosofskikh nauk; VORONOV,  
A.I., red.; NAZAROVA, A.S., tekhn. red.

[Eliminating social, economic, cultural and mode of life differences between city and village] O likvidatsii sotsial'no-ekonomicheskikh i kul'turno-bytovykh razlichii mezhdru gorodom i derevnei. Moskva, Izd-vo "Znanie," 1961. 31 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser.2, Filosofiia, no.22) (MIRA 15:1)  
(Agriculture--Economic aspects)

KURYLEV, Anatoliy Konstantinovich; YEFIMOV, O.S., red.; MAGNUS-SOMINSKIY, V.S., red.; KOZLOVA, T.A., takhn. red.

[Overcoming the essential differences between intellectual and physical work is the problem of the building of communism] Preodolenie sushchestvennykh razlichii mezhdu umstvennym i fizicheskim trudom - problema stroitel'stva kommunizma. Moskva, Izd-vo Mosk. univ., 1963. 399 p.

(MIRA 16:6)

(Labor and laboring classes) (Work)

KURYLEV, A.<sup>K.</sup> kand.filosofskikh nauk

Overcoming the essential differences between physical and mental  
work. Komm. Vooruzh. Sil 2 no.4:9-19 F '62. (MIRA 15:2)  
(Labor and laboring classes)

KURYLEV, I. A.

Bee Culture

Keeping bees in a building. Pchelovodstvo 29 No. 9, 1952.

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Unclassified.

KURILEV, I. P.

USSR/Oecophysica - Irrigation Specialists

Jun 52

"Chronicles: Conference on the Problem Concerning Methods for Irrigation of Agricultural Cultivation," A. I. Shklyarevskiy

"Gidrotekhn i Melio" No 6, pp 75-80

During 12 - 14 Mar 52, in Moscow, the Hydrotechnics and Amelioration Sec of the All-Union Acad of Agri Sci imeni Lomn held a plenum, with participation of agricultural and hydrological administrators, directors, and main agronomists of MTS (machine-tractor stations), besides presidents of kolkhozes in irrigated districts of Kuybyshev and Saratov Oblasts. Discussed were problems of utilizing irrigated lands under conditions met beyond the Volga and in other new regions being irrigated. Reports were heard from 22 lecturers.

PA 227Th6

KURYLEV, N.  
KURYLEV, N.

The educational significance of practical work in agriculture  
for secondary school students, Politekh, obuch, no, 12:47-51 D '57.  
(MIRA 10:12)

(Agriculture--Study and teaching)

KURYLEV, P.A.

Lever device for tightening unions in connecting asbestos concrete pipes.  
Rats. i izobr. predl. v stroi. no.94:41-42 '54. (MIRA 8:8)

1. Ministerstvo oboron SSSR. (Pipe, Concrete)

KURYLEV, SERGEY VASIL'YEVICH

N/5  
106.11  
.K9

OB"YASNENIYA STORON KAK DOKAZATEL'-STVO V SOVETSKOM GRAZHDANSKOM PROTSESSE  
(DEPOSITIONS AS EVIDENCE IN SOVIET CIVIL PROCESSES) MOSKVA, GOSYURIZDAT, 1956

186 p.

BIBLIOGRAPHICAL FOOTNOTES

106.11  
105.2

N/5  
N/5



SAVVUSHKIN, Ye.S., kand.tekhn.nauk; KURYLEV, V.F.

Natural vibrations in the longitudinal plane of the tractor-  
semitrailer system. Avt.prom. 29 no.9:14-15 S '63. (MIRA 16:9)  
(Tractor trains--Vibration)

LAPTEV, I.D.; TERYAYEVA, A.P.; SAPIL'NIKOV, N.G.; CHENTSOV, R.Ye.  
[deceased]; SEPP, Ya.P.; SUVOROVA, L.I.; ZASLAVSKAYA, T.I.;  
GREKOVA, A.I.; TONKOVICH, V.S.; IBRAGIMOV, A.I.; KOTLYUBA,  
T.Ya.; KURYLEV, V.M.; KOVALEVSKIY, G.T.; KALININ, A.A.  
[Kalinin, A.]; SIDOROVA, M.I.; MALISHAUSKAS, V.I.  
[Malisauskas, V.]; FASECHNIK, P.P.; BUGARIVICH, V.S.;  
KARNAUKHOVA, Ye.I.; ABEF'YEV, T.I.; KAZAKOV, I.G.;  
GUMOVSKIY, I.A.; SEMIN, S.I., red.; LINKUNA, N.I., red.;  
TSITKO, I.A., red.; VOLKOVA, V.V., tokhn. red.

[Material incentives for developing the collective farm produc-  
tion] Material'noe stimulirovanie razvitiia kolkhoznogo pro-  
izvodstva. Moskva, Izd-vo AN SSSR, 1963. 326 p.

(MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Institut eko-  
nomiki AN SSSR (for Laptev, Teryayeva, Suvorova, Zaslavskaya,  
Sidorova, Karneukhova). 3. Sredneaziatskiy gosudarstvennyy uni-  
versitet (for Sapil'nikov). 4. Komi filial AN SSSR (for Chentsov).  
5. Institut ekonomiki AN Estonskoy SSR (for Sepp). 6. Bashkirskiy  
filial AN SSSR (for Grekova). 7. Institut ekonomiki AN Belo-  
russkoy SSR (for Tonkovich, Kovalevskiy). 8. Institut ekonomiki  
AN Uzbekskoy SSR (for Ibragimov).

(Continued on next card)

LAPTEV, I.D.--- (continued). Card 2.

9. Institut ekonomiki AN Ukr.SSR (for Kotsyuba, Pasechnik).
  10. Belorusskiy institut ekonomiki i organizatsii sel'sko-khozyaystvennogo proizvodstva (for Bugarevich).
  11. Vsesoyuznyy institut sakharnoy svekly (for Aref'yev).
  12. Institut ekonomiki AN Kirgizskoy SSR (for Kazakov).
  13. Rabotnik TSentrального Komiteta Kommunisticheskoy partii Moldavskoy SSR (for Gumenovskiy).
  14. Kuybyshevskiy planovyy institut (for Kurylev).
- (Collective farms--Income distribution)

YANOVSKIY, B.N., kand.med.nauk, podpolkovnik meditsinskoy sluzhby; KURYLEV, V.V.,  
kapitan meditsinskoy sluzhby

Use of hypnosis in treating neuroses. Voenn.-med.shur. no.7:75  
Jl '59. (MIRA 12:11)

(HYPNOTISM--THERAPEUTIC USE)  
(NEUROSES)

DRIDZO, A.D., KURYLEV, V.P.

On the 250th anniversary of the Peter the Great Museum of  
Anthropology and Ethnology attached to the Academy of Sciences  
of the U.S.S.R. Izv. Vses. geog. ob-va 96 no.5:365-369  
S.O '64.

(MIRA 17:12)

KURYLEV, V. P. (Leningrad)

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Priroda 52 no.1:123-124 '63. (MIRA 16:1)

(Ethnology) (Its, Rudolf)

KURYLEV, V. P.

"K voprosu o genezise obraza Korkut-ata."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

ACC NR: AP6021951

(A)

SOURCE CODE: UR/0188/66/000/002/0118/0120

AUTHOR: Logginov, A. S.; Kurylev, V. V.; Shveykin, V. I.

ORG: Department of Oscillation Physics (Kafedra fiziki kolebaniy)

TITLE: Nonstationary thermal processes in gallium arsenide semiconductor lasers

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 2, 1966, 118-120

TOPIC TAGS: gallium arsenide, semiconductor laser, thermal process, pn junction, thermal conduction

ABSTRACT: Inasmuch as the temperature of the p-n junction in a solid-state laser is an important factor determining laser operation, the authors propose a new method of determining the p-n junction temperature, based on the dependence of the threshold current on the temperature ( $I_{thr} = kT^3$ ). The method makes it possible to measure the junction temperature in the coherent and spontaneous emission modes. It consists of passing a pair of pulses through the laser diode, spaced sufficiently long to permit thermal relaxation of the diode. The second pulse is of short duration and adjustable amplitude. By varying the amplitude of the second pulse it is possible to find the generation threshold for it and to determine the pn junction temperature. By varying the delay time between the working pulse and the measuring pulse, it is possible to

Card 1/2

UDC: 621.378.325



ACC NR: AP6021951

determine the cooling time of the laser diode and plot the cooling as a function of the time. Test results are presented for GaAs n-type diodes (carrier density  $2 \times 10^{18} \text{ cm}^{-3}$ ) of two different constructions. A theoretical analysis of the junction heating under certain assumptions, based on solution of the inhomogeneous one-dimensional thermal conductivity equation under suitable boundary conditions in a linear approximation, yielded an analytic expression for the p-n junction temperature as a function of the duration of the working pulse for a definite pulse amplitude. The expression is in fair agreement with the experimental results. The authors thank K. Ya. Senatorov for valuable remarks and help with the work, and V. P. Durayev for preparing the diodes. Orig. art. has: 3 figures and 2 formulas.

SUB CODE: 20/ SUBM DATE: 21Oct65/ ORIG REF: 000/ OTH REF: 005

Card 2/2

ACC NR: AP7003319

SOURCE CODE: UR/0188/66/000/006/0110/0110

AUTHOR: Logginov, A. S.; Senatorov, K. Ya.; Knab, O. D.; Kurylev, V. V.; Magalyas, V. I.

ORG: none

TITLE: Investigation of emission spectra of semiconductor lasers

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 6, 1966, 110

TOPIC TAGS: semiconductor laser, laser emission, laser radiation spectrum, emission spectrum, *PN TRANSITION*

ABSTRACT: An experimental investigation was made of the relation between the spectral characteristics of the emission of semiconductor injection lasers and the spatial distribution of the luminescence along the p-n transition (near field). It is shown that the observed complex composition of the emission spectra of semiconductor lasers, which does not conform to the rule for the selection of modes in Fabry-Perot resonators, is due to the independent generation of the emission in separate luminous channels of the p-n transition. The emission of separate groups of modes in spectra and the emission of the luminous regions of the p-n transition are generally polarized linearly in the p-n transition plane or perpendicularly to it. When the number of luminous channels is increased and a growth in their emission intensity occurs when the current between them is increased, an optical interaction occurs. However, the

Card 1/2

UDC: none

ACC NR: AP7003319

interaction between channels occurs not only because of the optical relation but also because of the redistribution of current between channels when the temperature conditions of generation are changed. The redistribution of current is caused by the change in the carrier lifetime during excitation or disruption of generation in separate p-n transition regions. The heating of the laser diode p-n transition, when pumping current exceeds threshold current by several times, has a local character and is due basically to the absorption of emission near the generating channel and is not a result of the Joule losses in the semiconducting material and in the contacts of the laser diode.

[WA-14]

[JA]

SUR CODE: 20/ SUBM DATE: none/

Card 2/2

KURYLEV, V.V., mayor meditsinskoy sluzhby

Change in methodology for paraffin therapy. Voen.-med. zhur. no. 6:  
80 Je '61. (MIRA 14:8)

(PARAFFINS—THERAPEUTIC USE)

L 12459-63

EMT(1)/EWG(k)/BDS

AFFTC/ASD/ESD-3

Pz-4 AT

S/066/63/000/002/002/004

AUTHOR:

Kurylev, Ye., Candidate of Technical Sciences

TITLE:

Operating conditions of semiconductor cooling devices

PERIODICAL:

Kholodilnaya tekhnika, no. 2, 1963, 7-10

TEX:

Three characteristic operating conditions of thermocouple devices are considered: at maximum differences of temperature, in which the minimum temperature  $T_{\min}$  is attained; at maximum refrigerating capacity, in which  $Q = Q_{\max}$  can be reached at  $i_q$ ; and at maximum refrigerating coefficient, in which  $\xi = \xi_{\max}$  is obtained at  $i_\xi$ .  $T_0$  -- assigned temperature;  $Q_0$  -- refrigerating capacity;  $i$  -- current intensity;  $\xi$  -- refrigerating coefficient. The variations of the theoretical temperature of cold junctions is illustrated in figure 1 of enclosure

1. The variation of the specific heat loads and refrigerating coefficients which depend on the temperature of the cold junctions are shown in Figure 2 of enclosure

2. The analysis of the thermocouple processes confirms the great advantage of applying the relative temperature  $T_0/T_{\min}$  and the relative current intensities  $i/i_t$  as parameters. The study offers the most favorable operating conditions of semi-cooling devices.

Card 1/4

Leningrad Tech. Inst. of the Cold-Storage Industry

1. KURYLEV, YE.S.
2. USSR (600)
4. Cold Storage - Insulation
7. Calculating the quantity of heat in cold storage rooms from solar radiation. Zhool. tekhn. 29, no. 4, 1952.

9. Monthly List of Russian Accessions. Library of Congress, March 1953. Unclassified.

KURYLEV, Y. S.

EMPLOYMENT OF HEAT PUMP FOR DETERMINING HEAT FROM PYRO-CALCULATIONS  
KURYLEV, Y. S., KURYLEV, Y. S. and KURYLEV, Y. S.  
J. Appl. Phys., Vol. 38, No. 10, 1965.

KURYLEV, Ye.<sup>S</sup>, kandidat tekhnicheskikh nauk.

Detection of imperfection in compressor performance. Khol.tekh. 30 no.2:  
24-26 Ap-Je '53. (MLRA 6:7)

1. Leningradskiy institut kholodil'noy i molochnoy promyshlennosti.  
(Compressors)



KURYLEV 40.5  
BADYLKES, I.S. [author]; ROKENFEL'D, L., professor, doktor tekhnicheskikh nauk;  
TKACHEV, A., kandidat tekhnicheskikh nauk, dotsent; KURYLEV, M., kandidat  
tekhnicheskikh nauk, dotsent; GURDAKOV, O., inzhener [Reviewers].

"Active substances in refrigerating machines." Khol.tekh. 30 no.2:78-  
79 Ap-Je '53. (MLRA 6:7)  
(Refrigeration and refrigerating machinery) (Badylkes, I.S.)

KURYLEV, Ye.S., kand. tekhn. nauk.

Possible errors in the recording of volume-pressure diagrams of  
horizontal compressors. Trudy ITIKHP 5:29-32 '54. (MIRA 11:3)  
(Compressors)

ROZENTEL'D, L.M., doktor tekhn. nauk, prof.; KURYLEV, Ye.S., kand. tekhn.  
nauk, dots.; KOSHKIN, M.N., kand. tekhn. nauk, dots.

Methods of solving the principle problems in the design of heat  
pump systems for the heat supply of hydroelectric power stations.  
Trudy IZIKHP 5:4-14 '54. (MIRA 11:3)  
(Hydroelectric power stations) (Heat pumps)

KURYLEV, Ye.S., kand.tekhn.nauk

Selecting a working medium for compressor heat pumps. Trudy  
ITIKHP 6:18-27 '54.

(MIRA 11:5)

(Heat pumps)

KURILEV, Ye., kandidat tekhnicheskikh nauk; ROZENGAUZ, V., inzhener.

Automatic apparatus for freezing meat dumplings. Mias. ind. SSSR  
28 no.4:13-16 '57. (MLRA 10:7)

1. Leningradskiy tekhnologicheskij institut kholodil'noy promysh-  
lennosti (for Kurylev). 2. Leningradskiy myasokombinat (for  
Rozenгаuz).  
(Meat, Frozen) (Refrigeration and refrigerating machinery)

PANOV, N. [translator]; KARTUZOV, P. [translator]; BOCHAROVA, Z. [translator];  
KURYLEV, Ye.S., dotsent [translator]; RYUTOV, D.G., kand.tekhn.  
nauk, red.; CHICHKOV, N.V., red.; SUDAK, D.M., tekhn.red.

[Ninth International Congress on Refrigeration; collection of  
reports] IX Mezhdunarodnyi kongress kholoda. Sbornik dokladov.  
Pod red. D.G.Riutova. Moskva, Gos.izd-vo torg.lit-ry, 1958.  
197 p. (MIRA 12:7)

1. Mezhdunarodnyy kongress kholoda. 9th, Paris, 1955. 2. Labo-  
ratoriya tekhnicheskoy informatsii Vsesoyuznogo nauchno-issledo-  
vatel'skogo instituta kholodil'noy promyshlennosti (im.A.I.  
Mikoyana) (for Panov, Kartuzov, Bocharova). 3. Leningradskiy  
tekhnologicheskoy institut kholodil'noy promyshlennosti (for  
Kurylev).

(Refrigeration and refrigerating machinery--Congresses)

YAKOVSON, Viktor Borisovich; KURYLEV, Ye.S., kand.tekhn.nauk, retsenzent;  
NIKOLAYEVA, N.G., md.; SUDAK, D.M., tekhn.red.

[Automatization of refrigeration equipment] Avtomatizatsiia kholodil'-  
nykh ustanovok. Moskva, Gos. izd-vo torg. lit-ry, 1958. 295 p.  
(MIRA 11:4)

(Refrigeration and refrigerating machinery)  
(Automatic control)

KURYLEV, Ye.<sup>5</sup>, kand.tekhn.nauk

Elements in the regulation of the humidity of the air in  
refrigeration rooms. Khol. tekhn. 35 no.2:5-9 Mr-Apr '58.

(MIRA 11:4)

(Cold storage) (Humidity)



BADYL'KES, I.S., prof., doktor tekhn.nauk; BUKHTER, Ye.Z., inzh.;  
 VEYNBERG, B.S., kand.tekhn.nauk; VOL'SKAYA, L.S., inzh.; GERSH,  
 S.Ya., prof., doktor tekhn.nauk [deceased]; GURZVICH, Ye.S., inzh.;  
 DANILOVA, G.N., kand.tekhn.nauk; YEFIMOVA, Ye.V., inzh.; IOFFE,  
 D.M., kand.tekhn.nauk; KAN, K.D., kand.tekhn.nauk; LAVROVA, V.V.,  
 inzh.; MEDOVAR, L.Ye., inzh.; ROZENFEL'D, L.M., prof., doktor tekhn.  
 nauk; TKACHEV, A.G., prof., doktor tekhn.nauk; TSYRLIN, B.L.;  
 SHUMBLISHSKIY, M.G., inzh.; SHCHERBAKOV, V.S., inzh.; YAKOBSON, V.B.,  
 kand.tekhn.nauk; GOGOLIN, A.A., retsenzent; GUKHMAN, A.A., retsenzent;  
 KARPOV, A.V., retsenzent; KURYLEV, Ye.S., retsenzent; LIVSHITS, A.B.,  
 retsenzent; CHISTYAKOV, F.M., retsenzent; SHEYDLIN, A.Ye., retsen-  
 zent; SHEMSHEDINOV, G.A., retsenzent; PAVLOV, R.V., spetsred.;  
 KOBULASHVILI, Sh.N., glavnyy red.; RYUTOV, D.G., zam.glavnogo red.;  
 GOLOVKIN, N.A., red.; CHIZHOV, G.B., red.; NAZAROV, B.A., glavnyy  
 red.izd-va; NIKOLAYEVA, N.G., red.; EYDINOVA, S.G., mladshiy red.;  
 MEDRISH, D.M., tekhn.red.

[Refrigeration engineering; encyclopedic reference book in three  
 volumes] Kholodil'naya tekhnika; entsiklopedicheskiy spravochnik  
 v trekh knigakh. Glav.red. Sh.N.Kobulashvili i dr. Leningrad,  
 Gostorgizdat. Vol.1. [Techniques of the production of artificial  
 cold] Tekhnika proizvodstva iskusstvennogo kholoda. 1960. 544 p.  
 (MIRA 13:12)

(Refrigeration and refrigerating machinery)

ALEKSANDROV, S.V.---(continued) Card 2.

1. Vsesoyuznyy institut rasteniyevodstva (for Sochkarov, Lizgunova, Brezhnev, Gagenbush, Meshcherov, Filov, Tkachenko, Kazakova, Krasochkin, Levandovskaya, Shebalina, Syskova, Makasheva, Ivanov, Martynov, Girenko, Ivanova, Shilova). 2. Gribovskaya ovoashchnaya selektsionnaya opytnaya stantsiya; chleny-korrespondenty Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Alpat'yev, Solov'yeva). 3. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Brezhnev).  
(Vegetables--Varieties)

86304

S/066/60/000/005/004/007

A003/A029

9.5100  
26.2532

AUTHOR: Kurylev, Ye., Candidate of Technical Sciences

TITLE: Operating Conditions of Semiconductor Cooling Devices 71

PERIODICAL: Kholodil'naya Tekhnika, 1960, No. 5, pp. 22 - 26

TEXT: For the efficient operation of semiconductor cooling devices it is necessary to determine the sources of the cold productivity required and to select the optimum operation conditions depending on the purpose of the installation. In the present work the results obtained by Ye.A. Kolenko and L.S. Stil'bans (Ref. 1) are used. In the case of an ideal heat insulation of the cold thermopile the efficient cold productivity will be zero and the temperature of the cold thermopile attains its lowest value for a given current intensity. This temperature is designated by  $T_{ot}$  and does not depend on the absolute value of the current  $i$  and the size of the thermoelement, but on the ratio between the current intensity and the optimum current intensity,  $\frac{1}{i_{opt. c}}$  [Abstractor's note:

Subscript  $opt. c$  (optimum current) is a translation from the Russian  $opt. t$  (optimum toka)]. The cold productivity is directly proportional to the difference

Card 1/4

86304

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A003/A029

Operating Conditions of Semiconductor Cooling Devices

between the constant temperature  $T_0$  and  $T_{ot}$ . The heat supply from the hot thermopile changes in proportion to the temperature drop  $T - T_{ot}$ . The number of thermocouples in the thermopile has no effect on the cold productivity. The dependence of the cold productivity and the cooling coefficient on the current intensity at the constant temperature  $T_0$  of the cold thermopile is shown in Figure 3. The dependence of the temperature of thermopiles of a two-cascade battery on the current intensity in the chain is shown in Figure 4. Several formulae were derived for calculating the cold productivity and other values. There are 4 figures and 1 Soviet reference.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti (Leningrad Technological Institute of the Refrigerating Industry)

Card 2/4

86304

S/C56/60/000/005/004/007  
A003/A029

Operating Conditions of Semiconductor Cooling  
Devices

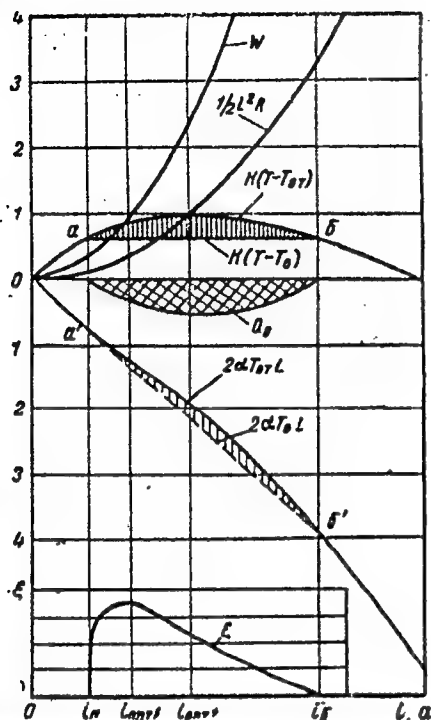


Figure 3

Card 3/4

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A003/A029

Operating Conditions of Semi-conductor Cooling Devices

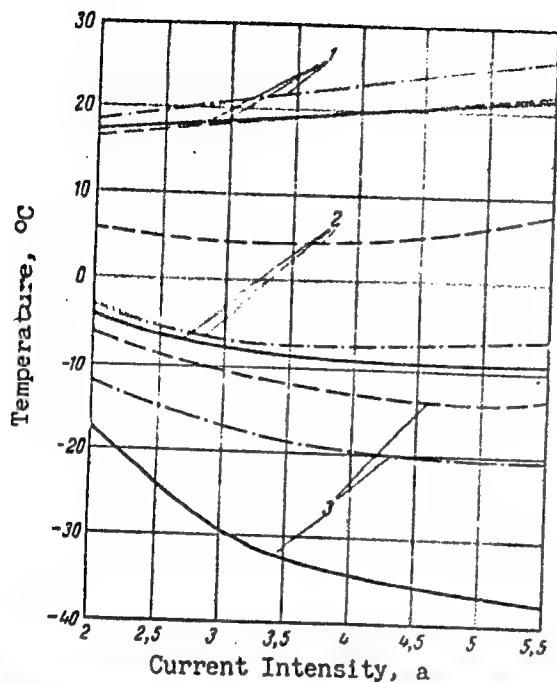


Figure 4.

Ratio of the number of thermocouples in the cascades:

— 1:7 (with heat-insulated cold thermopiles)

- - - 1:3

- . - . 1:7

Card 4/4

KURYLEV, Yevgeniy Sergeyevich; GERASIMOV, Nikolay Aleksandrovich. Prinimal  
uchastiye SURENKOV, S.I.; SHEFFER, A.P., kand. tekhn. nauk, retsen-  
zent; KARPOV, B.I., kand. tekhn. nauk, red.; SIMONOVSKIY, N.Z., red.  
izd-va; ONISHCHENKO, R.N., red. izd-va; PETERSON, M.M., tekhn. red.

[Refrigerating units] Kholodil'nye ustanovki. Moskva, Mashgiz, 1961.  
607 p. (MIRA 14:12)

(Refrigeration and refrigerating machinery)

3/066/62/000/001/001/004  
D041/D113

AUTHORS: Kurylev, Ye.S., Candidate of Technical Sciences; Golyand, M.M.,  
Candidate of Technical Sciences; Tsirkin, M.Z., Engineer;  
Fishman, M.A., Engineer.

TITLE: Multi-point temperature regulator on semi-conductor elements

PERIODICAL: Kholodil'naya tekhnika, no. 1, 1962, 4-7

TEXT: The design and operation of a multi-point semi-conductor device, for  
automatically regulating the air in cooling chambers, are described. The  
regulator was developed by the department of refrigerator units of the  
Leningradskiy tekhnologicheskii institut kholodil'noy promyshlennosti  
(Leningrad Technological Institute of the Refrigeration Industry) together  
with the Leningradskiy khladokombinat (Leningrad Refrigerator Combine). The  
experimental model installed on a "B" (V) refrigerator of the Leningrad  
Refrigerator Combine can regulate the air temperature in 45 chambers with  
an accuracy of up to 0.2-0.3°C. An MMT-4 (MST-4) semi-conductor  
resistance thermometer serves as sensing element of the regulator as well

Card 1/2



Multi-point temperature ...

S/066/62/000/001/001/001  
D041/D113

as of the temperature measuring device. An amplifier on semi-conductor and magnetic elements is used. The temperature is measured using an ЭМН (ЭМР) electronic bridge. The temperature is regulated, measured and recorded simultaneously. MKY-48 (ЭКУ-48) relays are used in the operating circuit. The amplifier and the measuring circuit are fed by a 15 W ferro-resonance stabilizer which ensures the normal operation of the device at voltage fluctuations within the -20 to +10% range. The regulator is designed for a voltage of 220 V a.c., and the required power is 200 W. There are 5 figures and 2 Soviet-bloc references.

ASSOCIATION: Leningradskiy tekhnologicheskii institut Molodil'noy promyshlennosti (Leningrad Technological Institute of the Refrigeration Industry) (Kurylev, Ye.S.; Solyani, M.M.; Tsirkin, M.Z.); Leningradskiy khladokombinat (Leningrad Refrigerator Combine) (Fishman, M.A.)

Card 2/2

KURYLEV, Ye.S., kand.tekhn.nauk

Operating conditions of semiconductor cooling systems. Khol.  
tekhn. 40 no.2:7-10 Mr-Apr '63. (MIRA 16:4)

1. Leningradskiy tekhnologicheskii institut kholodil'noy  
promyshlennosti.

(Refrigeration and refrigerating machinery)  
(Semiconductors)

KAPLAN, Leonid Gdal'yevich; SHAVRA, V.M., retsenzent; KURYLEV,  
Ye.S., spets. red.; NIKOLAYEVA, N.G., red.

[Repair of the automatic control equipment of refrigeration  
plants] Remont priborov avtomatiki kholodil'nykh ustanovok.  
Izd-vo "Pishchevaia promyshlennost'," 1964. 46 p.  
(MIRA 17:7)

ARCHANSKIY, Yakov Naumovich; YAKOVLEV, Nikolai Leonovich.  
KOLYEV, Ye.S., spets. red.; KOLETNIKOV, Ye.S., spets.

[Installation and maintenance of automatic control and  
regulation devices] Montazh i obsluzhivanie priborov av-  
tomatiki i kontrolia. Moskva, Izd-vo "Mishel'man pr-  
myshlennost'," 1964. 85 p. (MIR 19:8)

SYSOYEV, Lazar' Parfenovich; CHUPAKHIN, N.M., retsenezent; KURYLEV,  
Ye.S., spets.red.; TSIPERSON, A.L., red.

[Maintenance of the compressors and apparatus of refrigerat-  
ing plants] Obsluzhivanie kompressorov i apparatov kholodil'-  
nykh ustanovok. Moskva, Pishchevaia promyshlennost', 1964.  
70 p. (MIRA 17:10)

DOBROVOL'SKIY, Aleksandr Fedorovich; KURYLEV, Ye. S., karm. tekhn.  
nauk, dots., nauchn. red., TURABDINA, L.A., red.

[Thermotechnical testing of marine refrigerating systems]  
Teplo tekhnicheskie ispytaniya sudovyykh kholodil'nykh ustro-  
ystv. Leningrad, Sudostroyeniye, 1965. 290 p.  
(MIRA 18:8)

DOMKOVOL'NIKOV Aleksandr Petrovich; KURYLYEV, Yu. S., kand. tekhn.  
nauk, dots., nauchn. red.; TURANDINA, L. A., red.

[Thermotechnical testing of marine refrigerating  
machinery] Teplotekhnicheskie ispytaniia sudovykh kho-  
lodil'nykh ustanovok. Leningrad, Sudostroenie, 1965.  
290 p. (MIRA 18:12)

L 44461-66 EWT(m)/EWP(j) RM/RH

ACC NR: AP6023655

(A)

SOURCE CODE: UR/0066/66/000/004/0020/0023

AUTHORS: Kurylov, Ye. S. (Candidate of technical sciences); Yanovskiy, S. I.

26

ORG: Laboratory for Refrigeration Technology and Engineering at the Leningrad Technological Institute for the Refrigeration Industry (Otraslevaya laboratoriya kholodil'noy tekhnologii i tekhniki Leningradskogo tekhnologicheskogo instituta kholodil'noy promyshlennosti)

B

TITLE: Use of devices for measurement and control of humidity in refrigeration chambers

9M

SOURCE: Kholodil'naya tekhnika, no. 4, 1966, 20-23

TOPIC TAGS: humidification, atmospheric humidity, humidity gage, refrigeration equipment / DVIP humidity gage

ABSTRACT: Experiments have been performed testing the suitability of a relative humidity gage DVIP for measuring and controlling the humidity of air in refrigerated chambers. The construction of the DVIP humidity gage is illustrated in Fig. 1. The sensitive element of the instrument is the membrane prepared of organic hygroscopic film. The gages are suitable for use in chambers with an air cooling system and should be located where the air flow rate is about 0.8--2.5 m/sec. Every six months the gages should be checked under industrial conditions at 100% humidity. Hygrostats in hermetic glass containers (desiccators), filled with water

Card 1/2

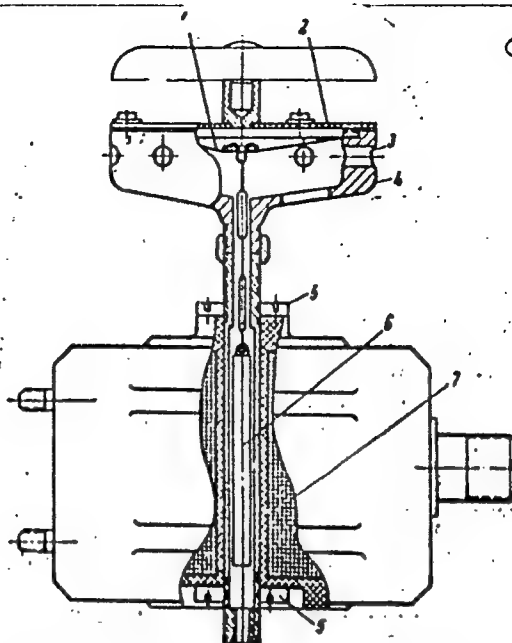
UDC: 681.2.083:621.565



L 44461-66

ACC NR: AP6023655

Fig. 1. Humidity gage DVIP: 1 - membrane;  
2 - lid; 3 - additional openings;  
4 - metal funnel; 5 - adjusting nuts;  
6 - core; 7 - induction coil.



or saturated salt solutions, are best suited for testing and adjusting the DVIP humidity gages. Orig. art. has: 4 figures and 1 table.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2 *Jo*

ACC NR: AP7001223

(A)

SOURCE CODE: UR/0066/66/007012/0030/0031

AUTHORS: Kurylev, Ye. S. (Candidate of technical sciences); Yanovskiy, S. I.;  
Komissarova, M. G.; Fishman, M. A.; Terent'yeva, N. A.

ORG: /Kurylev and Yanovskiy/ Leningrad Engineering Institute for Refrigeration  
Industry (Leningradskiy tekhnologicheskii institut kholodil'noy promyshlennosti);  
/Komissarova, Fishman, and Terent'yeva/ Leningrad Refrigerated Transportation Combine  
(Leningradskiy khladokombinat)

TITLE: Storage of eggs in refrigerated chambers with controlled air humidity

SOURCE: Kholodil'naya tekhnika, no. 12, 1966, 30-31

TOPIC TAGS: food preservation, refrigeration, humidification

ABSTRACT: A chamber for storage of eggs maintained at -1.5 to -2.0C and 85% relative humidity is described. Maintenance at these conditions gave an increase of 1.5 times the egg storage period as compared with instructions given by the literature (Spravochnik po ekspluatatsii kholodil'nykh skladov. Pod redaktsiyey D. G. Ryutova. Gostorgizdat, 1963). The difficulty of maintaining the desired humidity (encountered during the summer) was circumvented by injecting steam by jet air-distribution. The chamber was loaded with 14 780 cartons of eggs. The storage time was up to 7 months. The weight loss of eggs was measured by weighing them every 30--35 days with an accuracy of  $\pm 0.1$  g. Results of the study are shown in Fig. 1.

Card 1/2

UDC: 637.4.004.4

ACC NR: AP7001223

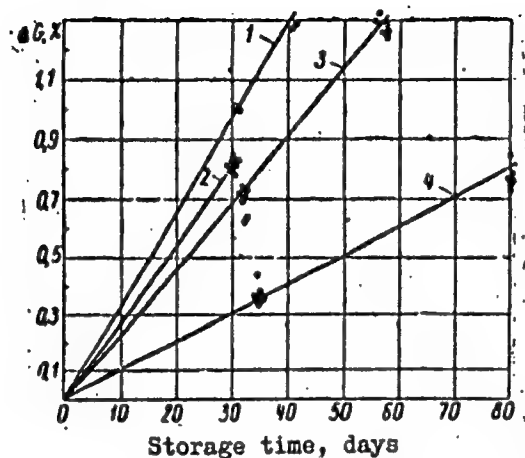


Fig. 1. Shrinkage of eggs in the refrigerated chamber: 1 - at temperature 0C, relative humidity  $\varphi = 85\%$ ; 2 - at -2C, no humidity control,  $\varphi = 68--72\%$ ; 3 - at -2C, humidity controlled,  $\varphi = 85\%$ ; 4 - at -2C, winter storage,  $\varphi = 85--90\%$

Orig. art. has: 2 figures and 1 table.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 003  
Card 2/2

VOLOSHIN, V., konstruktor; KURYLEV, Yu., konstruktor

Reversible engine cleaning machine. Rech. transp. 21 no.9:  
46-47 S '62. (MIRA 15:9)

1. Mosgiprorechtrans.  
(Marine engines--Maintenance and repair)

PEREKAL'SKIY, N.P., doktor. tekhn. nauk; ANTONOVICH, L.N., kand. tekhn. nauk; KRYUKOVA, Z.M., kand. tekhn. nauk; KURILEV, Yu.V., inzh.;  
Prinimali uchastiye: Ivanova, V.I., mladshiy nauchnyy sotrudnik;  
BRUSNICHKINA, V.F., starshiy laborant; LOKSH, R., studentka-diplomantka

Use of alkyl ketene dimers for paper sizing. Trudy LTITSBP  
no.10:15-26 '62. (MIRA 16:8)

(Sizing. (Paper)) (Ketene)

GENERAL, H.I.; ANTONOVICH, I.N.; RYKOVA, M.; KADUN, I.

Use of alkyl ketene dimers in paper making. Trudy Vsesoyuzn. Nauch. Issled. Inst. Khim. (1964) 231 '64. (NIRA 18:8)

AGALAROVA, D.A.; KOZHEVNIKOVA, G.Ye.; KURYLEVA, A.M.

Binomial conditions of the Akchaghykian Sea. Izv.AN Turk.SSR  
no.3:18-24 '55. (MDRA 9:5)

1. Institut geologii AN Turkmenskoy SSR.  
(Turkmenistan--Geology, Stratigraphic)

L 35322-66 EWT(m)/EWT(j) RM

ACC NR: AP6026894

SOURCE CODE: UR/0062/65/000/012/2133/2136

AUTHOR: Kuryleva, M. A.; Khayrullin, V. K.

ORG: Institute of Organic Chemistry, AN SSSR, Kazan' (Institut organicheskoy khimii AN SSSR)

TITLE: Synthesis and rearrangement of the mixed alkyl-tert. (1,1,1-trichloro) butyl esters of phenylphosphinous acid

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1965, 2133-2136

TOPIC TAGS: chemical synthesis, ester, chemical separation, phosphorus compound

ABSTRACT: This is continuation of a previous investigation dealing with the synthesis of the esters of phenylphosphinous acid by reaction of phenyl-tert. (1,1,1-trichloro)butoxychlorophosphine with primary alcohols of normal and iso-structure, secondary butyl alcohol, and phenol in the presence of ethylamine. The esters thus synthesized are:  $\text{CH}_3$ ,  $\text{C}_2\text{H}_5$ ,  $\text{C}_3\text{H}_7$ ,  $\text{C}_4\text{H}_9$ ,  $i\text{-C}_3\text{H}_7$ ,  $i\text{-C}_4\text{H}_9$ ,  $i\text{-C}_5\text{H}_{11}$ ,  $\text{C}_6\text{H}_5$ , and secondary  $\text{C}_4\text{H}_9$ . There is no reaction with 1-trichloromethylcyclopentanol, owing to steric factors. The rearrangement of these mixed alkyl-tert. (1,1,1-trichloro)butyl esters by means of methyl iodide or allyl bromide involves the separation of a light nonsubstituted alkyl. Orig. art. has: 2 tables. [JPRS: 36,455]

SUB CODE: 07 / SUBM DATE: 22Jul63 / ORIG REF: 003

Cord 1/1

UDC: 542.91+542.952.1+661.718.1

09/6

2632



KHAYRULLIN, V.K.; KURYLEVA, M.A.; SOBCHUK, T.I.

Preparation of mixed esters of phenylphosphinic acid. Izv.  
AN SSSR. Ser. khim. no.6:1083-1085 '65.

(MIRA 18:6)

1. Institut organicheskoy khimii AN SSSR, Kazan'.

KHACHIKOVA, M.A.; KHEZYRULIAN, V.K.

Preparation and rearrangement of mixed alkyl-tert-(1,1,1-trichloro)  
butyl esters of phenylphosphinic acid. Izv. AN SSSR Ser. Khim.  
no. 12:2133-2136 '65. (RUR: 15:15)

1. Institut organicheskoy khimii AN SSSR, Kazan'. Submitted  
July 22, 1963.

KURYLEVA, N. A.

PA 62T58

USSR/Geology  
Stratification

Apr 1948

"New Data on the Stratigraphy of the Pechensk Formation on the Kola Peninsula," N. A. Kuryleva, 2 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LX, No 2

Briefly describes new geologic formations discovered during 1945 survey in the Pechensk tundra region, in the vicinity of the Dolomit Cape, Pitkyaloukko Bay. Clay obtained was found to be heavily crystallized and served as poor medium for preservation of organic remains. Submitted by Academician D. S. Belyankin, 14 Feb 1948.

222

62T58

*KURYLEVA, N.A.*  
BOBRIYEVICH, A.P., sotrudnik; BONDARENKO, M.N., sotrudnik; GNEVUSHEV, M.A.,  
sotrudnik; KIND, N.D., sotrudnik; KORASHKOV, B.Ya., sotrudnik;  
KURYLEVA, N.A., sotrudnik; NEFEDOVA, Z.D., sotrudnik; POPUGAYEVA,  
L.A., sotrudnik; POPOVA, Ye.M., sotrudnik; SKUL'SKIY, V.D.,  
sotrudnik; SMIRNOV, G.I., sotrudnik; YURKEVICH, R.K., sotrudnik;  
FAYNSHTEYN, G.Kh., sotrudnik; SHCHUKIN, V.N., sotrudnik; BUROV,  
A.P., nauchnyy redaktor; SOBOLEV, V.S., nauchnyy redaktor;  
VERSTAK, G.V., redaktor izdatel'stva; KRYNOCHKINA, K.V., tekhnicheskly redaktor

[Diamonds of Siberia] Almazы Sibiri. [Moskva] Gos.nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1957. 157 p. (MLRA 10:7)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.
2. Amakinskaya ekspeditsiya Glavuralsibgeologii Ministerstva geologii i okhrany nedr SSSR (for Bobriyevich, Bondarenko, Gnevushev, Kind, Korashkov, Kuryleva, Nefedova, Popugayeva, Popova, Skul'skiy, Smirnov, Yurkevich, Faynshteyn, Shchukin)  
(Siberia--Diamonds)

*KURYLEVA N.A.*

132-58-2/17

AUTHORS: Il'in, I.V., Kuryleva, N.A., Popugayeva, L.A. Cigal, Ya.B.

TITLE: Chrisolites from the Kimberlite Tubular Columns of Yakutiya as Precious Stones for the Jewelry Industry (Khrizolity kimberlitovykh trubok Yakutii kak dragotsennyye kamni dlya yuvelirnoy promyshlennosti)

PERIODICAL: Razvedka i Okhrana Nedr, 1958, Nr 2, pp 8-9 (USSR)

ABSTRACT: During the exploitation of diamond-bearing kimberlite tubular columns in Yakutiya, crystals of pure clivine - chrisolites - are often found. Technological examination of these chrisolites confirmed their importance for the jewelry industry.

ASSOCIATION: VSEGEI

Card 1/1      1. Industry-USSR      2. Jewelry

KURYLEVA, N.A.

Petrography of Siberian kimberlites. Zap. Vses. min. ob-va 87  
no.2:233-237 '58. (MIRA 11:9)  
(Siberian Platform--Kimberlite)

Kurylova, N.A.  
3(5, 8)

PHASE I BOOK EXPLOITATION

SOV/3028

Akademiya nauk SSSR. Yakutskiy filial

Materialy po geologii poleznykh iskopayemykh Yakutii (Materials on the Geology of the Minerals of Yakutiya) Moscow, Izd-vo AN SSSR, 1959. 199 p. (Series: Its: Trudy. Seriya geologicheskaya. Sbornik, no. 4) Errata slip inserted. 1,500 copies printed.

Resp. Ed.: N. V. Cherskiy; Ed. of Publishing Houses: S. P. Shobolov; Tech. Ed.: P. S. Kashina.

PURPOSE: This collection of articles is intended for geologists, mineralogists, petrographers, and stratigraphers.

COVERAGE: This collection of articles discusses the geology of various East Siberian mineral complexes. Of particular interest are an article on Yakut diamonds (photographs show morphology and crystal structure) and one on alterations in rock complexes (albitization, biotization, etc.). References accompany each article.

Card 1/ 3

Materials on the Geology (Cont.)

SOV/3028

TABLE OF CONTENTS:

Flerov, B. L. An Example of Alterations in the Vicinity of a Vein in a Deposit of Northeastern USSR	3
Bobriyevich, A. P., and <u>N. A. Kuryleva.</u> On the Petrography of Siberian Kimberlites	32
Smirnov, G. I. On the Mineralogy of Siberian Kimberlites	47
Gnevushev, M. A., and Z. V. Bartoshinskiy. On the Morphology of Yakut Diamonds	74
Vikhert, A. V. Upper Devonian Effusive Rocks of the Northern Extremity of the Setta-Daban Ridge and the Triassic Diabases of the Western Slope of the Western Verkhoyan'ye Region	93
Kirusenko, T. S. Material on the Stratigraphy and Tectonics of Setta-Daban	128
Strugov, A. S. Ust'markhinskiy Coal-bearing Region of the Viluy Basin	136
Card 2/3	



Materials on the Geology (Cont.)

SOV/3028

Strugov, A. S. On the Geology of the Kependyayskoye Brown Coal Deposits 151

Bobrov, A. K. Cambrian Stratigraphy of the Lower Course of the Olekma River 155

Tolstykh, A. N. New Data on the Permian Bryozoa of the Western Verkhoyan'ye Region 165

AVAILABLE: Library of Congress

Card 3/3

MM/lrb  
12-21-59

3(8)

BOV/132-59-3-2/15

AUTHORS: Kuryleva, N.A., and Nosikov, V.V.

TITLE: Volcanic Eruption Funnels on the Kola Peninsula

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 3, pp 5-8, (USSR)

ABSTRACT: The article describes breccia-like rock formations in the Kandalaksha Gulf (Telyachiy Island and Cap Turfy ) in general, and the geological structure of an eruption funnel on the Yelovyy Island in particular. The latter is identical with kimberlite funnels of the Cap Province, South Africa. The following scientists have contributed to the geological survey of the Kandalaksha Gulf area: D.S. Belyankin, B.M. Kupletskiy, N.G. Sudovikov, K.A. Shurkin, A.G. Bulakh, A.A. Kukharensko, Ye.I. Nefedov, and Mineralogist G.P. Romanov, with the North-West Geological Administration carrying out the prospecting work. The sectional plane of the funnel has the shape of an irregular oval stretching from SW to NE and measuring 18 x 10.5 m (see diagram 1). It had been formed in four stages during the Paleozoicera, with carbonatite stocks in the funnel

Card 1/2

SOV/132-59-3-2/15

Volcanic Eruption Funnels on the Kola Peninsula

center coming into existence during the last stage. Although the above phenomenon is the first kimberlite-like funnel discovered in the Kola Peninsula area, chances are strong that more funnels may be discovered in the tectonic zone of the Yelovyy Island. There are 3 photos, 1 diagram, and 6 Soviet references.

ASSOCIATION: Severo-Zapadnoye geolupravleniye (The North-West Geological Administration).

Card 2/2

BOBRIYEVICH, A.P.; KURYLEVA, N.A.

Petrography of Siberian kimberlites. Trudy IAPAN SSSR. Ser.  
geol. no. 4: 32-46 '59. (MIRA 12:8)  
(Siberian Platform--Kimberlite)

KURYLEVA, N.A.

Prismatine from the Bug Valley. Zap.Vses.min.ob-va 89 no.6:711-713  
'61. (MIRA 15:5)

(Bug Valley--Prismatine)

RUZHITSKIY, V.O.; BYKOV, I.N.; TOCHILIN, M.S.; KURYLEVA, N.A.; MOLOTKOV, S.P.

Ultrabasic **explosion** breccia of the Russian Platform. Dokl. AN SSSR 162 no.6:  
1367-1369 Ju '65. (MIRA 18:7)

1. Voronezhskiy gosudarstvennyy universitet. Submitted March 18, 1965.

MASLOV, M.S., professor, zaslushenny deyatel' nauki, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR; ZAYTSEVA, G.I., kandidat meditsinskikh nauk, sekretar'; KURYLEVA, O.M.; BRONSHTEIN, A.I.; PETROVA, Ye.P.; MALAKHOVSKAYA, D.B.; ~~IPINA, N.A.~~; MAKAROVA, V.V.; RYBAKOVA, T.N.; ORBELI, L.A., akademik; VOLOVIK, A.B., professor; TUR, A.F., professor; BYSTROLETOVA, G.I.; DANILEVICH, M.G., professor; KUZMICHEVA, A.G., doctsent; BEKHTEREVA, M.I.; ALEKSANDROVA, V.R.

Minutes of the meetings of the Leningrad Society of Pediatricians. Vop. pediat. 21 no.2:60-62 Mr-Apr '53. (MLRA 6:6)

1. Leningradskoe obshchestvo detskikh vrachei.
  2. Akademiya meditsinskikh nauk SSSR (for Maslov).
- (Reflexes) (Scarlet fever)

KURYLEVA, O. M.; DANILEVICH, M. G.; ZHAGULO, Ye. M.

"Modern status of the problem of combatting scarlet fever."

Report submitted at the 13th All-Union Congress of Hygienists,  
Epidemiologists and Infectionists. 1969



KUMILEVA, T. F.

"Quaternary Mutual System of Fluorides, Chlorides, and Carbonates of Lithium and Sodium." Cand Chem Sci, Chair of General Chemistry, Pharmaceuticals Faculty, Irkutsk State Medical Inst, Irkutsk, 1953. (KL, No 12 Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (15)

TUTOVA, A.P.; NIKOL'YEVA, L.P.; NIKOL'YEV, A.Y.; GOSTIN, A.Y.;  
NIKOL'YEVSKIY, A.A.; GALKINA, K.I.; ZOLOVA, E.A.;  
RUSYLEVA, T.Ye., otv. red.; KUT'KOVA, L.I., red.

[Transactions and materials of scientific congresses and  
conferences published abroad in 1962; an index] (Tr. i  
materialy nauchnykh kongressov i soveshchaniy, soprobozha-  
nye za rubezhom v 1962 godu; ukazatel'. Vyuskh 3. Lenin-  
grad, 1964. 133 p. (Mir, 17:9)

1. Akademiya nauk SSSR. Biblioteka.

ACCESSION NR: AP4041874

S/0170/64/000/007/0091/0095

AUTHOR: Kurzhunov, V. V.

TITLE: Some experimental data concerning the effect of pressure on oscillatory combustion in tubes

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 7, 1964, 91-95

TOPIC TAGS: oscillatory combustion, combustion instability

ABSTRACT: The effect of pressure on the boundaries of oscillatory flame propagation in CO-, acetylene-, and technical propane-air mixtures has been studied photographically at reduced pressures (below  $10^5$  n/m<sup>2</sup>) and 293—550K using pyrex glass tubes (1—2 cm in diameter and 0.47—1.1 m long). The tubes were sealed at one end; the other end was connected to an evacuated large-diameter vessel, to simulate outer atmospheric conditions. The boundaries of oscillatory flame propagation, the amplitude of the oscillations, and the tube length at which oscillatory flame propagation is possible were determined as a function of pressure and temperature. The results show that the change in the initial gas temperature causes a shift

Card 1/2

ACCESSION NR: AP4041874

of the boundaries of the pressure vs air-excess-coefficient ( $\alpha$ ) curves. The shapes of these curves also depend on the nature of the combustible gas and the parameters of the tubes. In all cases at all tube parameters studied, the oscillation frequencies decreased with decreasing pressures. The amplitude of the oscillations also decreased with decreasing pressure. The length of tube at which the oscillatory flame propagation is possible is inversely proportional to the pressure. All experiments refer to longitudinal oscillations. Orig. art. has: 4 figures and 2 formulas.

ASSOCIATION: Gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina, g. Kazan' (Kazan State University)

SUBMITTED: 10Sep63

ATD PRESS: 3051

ENCL: 00

SUB CODE: FP

NO REF SOV: 004

OTHER: 001

Card 2/2

KURYLEVA, Ye.

Increase the responsibility of trade unions for educational work among river workers. Rech. transp. 22 no.9:1-3 S '63.

(MIRA 16:10)

1. Sekretar' Tsentral'nogo komiteta professional'nogo soyuza rabochikh morskogo i rechnogo flota.

ACC NR: AP006024

SOURCE CODE: UR/0185/66/011/009/1027/1030

KURLKO, V. I., Khar'kov State University (Khar'kivs'kyi derzhuniversityet)

"Diffraction of a Planar Wave on a Rectangular Dielectric Wedge"

Kiev, Ukrain'skyi Fizychnyi Zhurnal (Ukrainian Physics Journal),  
No 9, 66, pp 1027-1030

TOPIC TAGS: Maxwell equation, integral equation, dielectrics

Abstract: This is a continuation of a previous investigation  
(V. I. KURLKO, Sb. Vysokochastotnyye Svoystva Plazmy, K. Izd-vo  
AN UkrSSR), the difference being that it deals with the diffraction  
of a planar wave. The problem is solved in terms of Maxwell's  
equations for an external plane wave incident on an edge of the  
wedge, with cases of E- and H-waves being considered separately.  
It is shown that for E-waves the problem of the reflection of a  
planar wave by a rectangular wedge reduces to the solution of a  
system of two singular integral equations with displaced arguments.  
For a magnetic wedge the field of the H-wave has the same features  
in the neighborhood of the wedge's edge as the field of the E-wave  
for a dielectric wedge. "The author is indebted to V. O. Marchenko  
and Ya. B. Paynberg for valuable discussion." Orig. art. has: 6  
formulas. [JPRS: 38,764]

SUB CODE: 20 / SUBM DATE: 20Apr66 / ORIG REF: 004

Card 1/1

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L 04913-67 EWT(1) IJP(c) GG

ACC NR: AP6028712

SOURCE CODE: UR/0185/66/011/008/0908/0910

AUTHOR: Kurylko, V. I.

ORG: Physico-Technical Institute, AN UkrSSR Khar'kov (Fizyko-tekhnichnyy instytut AN URSR)

TITLE: Diffraction of electromagnetic waves on a dielectric wedge

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 11, no. 8, 1966, 908-910

TOPIC TAGS: electromagnetic wave diffraction, dielectric waveguide, Maxwell equation, boundary value problem, functional equation

ABSTRACT: Study of diffraction characteristics in restricted dielectrics is requisite for the theory of quantum generators, excitation of electric and (in particular) plasma waveguides, geophysical exploration, etc. For many of these the model problem involves scattering of electromagnetic waves by a dielectric wedge, but heretofore it has not been solved because the solution of Maxwell's equations must satisfy the boundary conditions at the discontinuities in the dielectric constants. After Sommerfeld's well-known results substantial progress was made because of Leontovich's boundary conditions used to solve the external problem in the case of small skin depths. The present article examines this for the case of a right-angle

Card 1/2

L 04913-67

ACC NR: AP6028712

2

wedge. Here the use of accurate boundary conditions at the wedge surface makes it possible to study the general case of arbitrary skin depth and the field state near the wedge edge, and also to solve the internal problem. Ratios are derived to represent a system of three boundary problems to define the unknown functions. It can be proved that this system is equivalent to a system of two singular integral equations with Cauchy nuclei and displaced independent variables. These equations are solved by an iteration method. Functional equations for wedges with any apex angle may be derived in the same way. The final results agree with Sommerfeld's findings. The author is grateful to G. Ya. Lyubar'skiy and V. O. Marchenko for discussing the results of this work. Orig. art. has: 7 formulas.

SUB CODE: 12/20/ SUBM DATE: 26Jan66/ ORIG REF: 004/ OTH REF: 004

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Card 2/2



S/185/61/006/003/007/010  
D208/D302

24.2/20(1538, 3717, 4216)

AUTHORS: Kurylko, V.I. and Miroshnychenko, V.I.

TITLE: Reflection of electromagnetic waves by a plasma

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 3, 1961,  
415-416

TEXT: By reflecting electromagnetic waves on moving objects, it is possible to increase their amplitude and frequency. (Ref. 1: Ya. B. Fainberg and V.S. Tkalych, Zvit FTI AS UkrSSR, no. 1021, 1955, ZhTF, 29, 491, 1959), (Ref. 3: Ya. B. Fainberg, Atomnaya energiya, 6, 431, 1959). Ya. B. Fainberg noted (in Ref. 3: Op. cit) that this effect can be considerably increased with non-relativistic velocities, by reducing the phase velocity of the electromagnetic waves. For reflection, a plasma is used which moves in a waveguide for slow (non-relativistic) waves. In Refs. 1 and 2 (Op. cit) the corresponding calculations were made, but the temperature of the plasma was not taken into account nor the space dispersion related to it. As under actual conditions the temperature is not zero, X

Card 1/6

23224

Reflection of electromagnetic waves... S/185/61/006/003/007/010.  
D208/D302

space dispersion occurs (it becomes very notable at frequencies  $\omega \sim \frac{|c|H_0}{mc}$ ). In the present study the temperature of the plasma is taken into account. The electromagnetic wave is reflected by a plasma which moves with velocity  $\bar{V}$  along a constant magnetic field  $H_0 \parallel z$ , in a dielectric with given  $\epsilon$  and  $\mu$  (without dispersion). In a system in which the plasma is at rest and the dielectric moves, the electromagnetic field in the plasma is described by the equations (Ref. 7: V.I. Kurylko, ZhTF, 31, 70, 1961):

$$E'_\pm + a_1 E'_\pm + a_2 E_\pm = \int_0^\infty dx' E_\pm(x') \{K_\pm(|x-x'|) + pK_\pm(|x+x'|)\}.$$

$$\text{where } a_1 = \frac{2\beta(\epsilon\mu - 1)t}{1 - \epsilon^2\mu}; \quad a_2 = \frac{a_1^2}{4} + \frac{\epsilon\mu(1 - \beta^2)^2}{(1 - \beta^2\epsilon\mu)^2};$$

$$K_\pm(|\xi|) = -i \frac{\omega_0^2 \pi^{-1/2} \cdot \mu(1 - \beta^2)}{\omega^2 \beta \epsilon \cdot (1 - \beta^2\epsilon\mu)} \int_0^\infty \frac{dv_1}{v_1} \exp\left\{-\frac{v_1^2}{\beta^2} - \frac{i(1 \pm \Omega\pi)}{v_1} |\xi|\right\};$$

$$x = \frac{\omega z}{c}; \quad \beta c = V; \quad m\omega_0^2 = 4\pi n_1 e^2;$$

$$\omega mc\Omega_1 = |e|H_0.$$

Card 2/6

202.

Reflection of electromagnetic waves..

S/185/61/006/003/007/010  
D208/D302

$f_0 = \frac{n_0 \pi^{-3/2}}{\beta_{\perp} \beta_{\parallel}} \exp \left\{ -\frac{v_{\perp}^2}{\beta_{\perp}^2} - \frac{v_{\parallel}^2}{\beta_{\parallel}^2} \right\}$  is the velocity distribution of the electrons of the plasma;  $p$  is a factor which shows the proportion of mirror-reflected electrons. Assuming that

$E_{\pm}(x < 0) \pm 0$  and  $F_{\pm}(x > 0) \pm 0$  where  $F_{\pm}(x) = \int_0^x dx' E_{\pm}(x')$

$\{K_{\pm}(|x - x'|) + pK_{\pm}(|x + x'|)\}$ , we obtain for the Fourier components  $\mathcal{E}_{\pm}(t)$  and  $F_{\pm}(t)$  of  $E_{\pm}(x)$  and  $F_{\pm}(x)$  a system of equations which amounts to the Hilbert problem for two functions:

$$F_{\pm}(t) = -[E'_{\pm}(0) + (a_1 + it) E_{\pm}(0)] + [a_2 - t^2 - a_1 it - k_{\pm}(t)] F_{\pm}(t) - pk_{\pm}(t) F_{\pm}(-t), \quad (2,a)$$

$$F_{\pm}(-t) = -[E'_{\pm}(0) + (a_1 - it) E_{\pm}(0)] + [a_2 - t^2 + a_1 it - k_{\pm}(t)] F_{\pm}(-t) - pk_{\pm}(t) F_{\pm}(t) \quad (2,b)$$

Card 3/6

25270

S/185/61/006/003/007/010

Reflection of electromagnetic waves... D208/D302

This simplifies if  $p = 0$  and  $p = 1$ . In the first case the equations are independent, and in the second case we obtain:

$$F_+(t) + (a_2 - t^2 - a_1 it) \mathcal{E}_+(-t) = a_+ t + b_+, \quad (3.a)$$

$$F_+(-t) + (a_2 - t^2 + a_1 it) \mathcal{E}_+(t) = a_+ t + b_+. \quad (3.b)$$

Hence

$$\frac{b_+ + E_+^*(0) a_1 E_+(0)}{\Delta_-} - \mathcal{E}_+(-t) = \frac{\Delta_+}{\Delta_-} \mathcal{E}_+(t), \quad (4)$$

$$b_+ = E_+^*(0) + a_1 E_+(0); \quad \Delta_+ = a_2 - t^2 + a_1 it - k_+(t).$$

If the plasma is at rest or in the absence of the dielectric,  $a_1 = 0$ .

In that case (4) becomes an algebraic equation for the Fourier components  $\mathcal{E}_+(t) + \mathcal{E}_+(-t)$  of the field  $E_+(x)$ , which corresponds to

$E_+(x < 0) = E_+(x > 0)$ , (Ref. 6: V.D. Shafranov, ZhETF, 34, 1475, 1958).

Solving (4), we obtain:

Card 4/6

11724

S/185/61/006/003/007/010  
D208/D302

Reflection of electromagnetic waves...

$$E_{\pm}(t) = [E'_{\pm}(0) + a_1 E_{\pm}(0)] \left\{ \Lambda_{\pm}^{-1}(t) - \left[ \frac{H(t)}{2\pi} \int_0^{\infty} \frac{dt' H^{-1}(t')}{(t'-t)[\Lambda_{+}(t')\Lambda_{-}(t')]^{1/2}} \right] \right\}$$

$$H(t) = \exp \frac{1}{2\pi i} \int_{-\infty}^{\infty} (t'-t)^{-1} \ln \frac{\Lambda_{+}(t')}{\Lambda_{-}(t')} dt' \quad (5)$$

Knowing  $E_{\pm}(t)$ , the field  $E_{\pm}(x)$  can be calculated, as well as the coefficient of reflection

$$R_{\pm} = \left| \frac{1 - z_{\pm}}{1 + z_{\pm}} \right|^2, \quad z_{\pm} = \frac{E_{\pm}(0)}{H_{\pm}(0)} = \mp \frac{\mu(1 - \beta^2)}{1 - \beta^2 \epsilon \mu} \cdot \left[ \frac{a_1}{2} + \frac{E'_{\pm}(0)}{E_{\pm}(0)} \right]^{-1}$$

where  $\frac{E'_{\pm}(0)}{E_{\pm}(0)}$  can be found from Eq. (5) of Ref. 4:

$$E_{\pm}(0) = E'_{\pm}(0) + a_1 E_{\pm}(0) = I_{\pm},$$

$$I_{\pm} = \frac{1}{\pi} \int_0^{\infty} \frac{dt' \cdot H(t')}{[\Lambda_{+}(t') \cdot \Lambda_{-}(t')]^{1/2}} \quad (6)$$

Card 5/6

23294

S/185/61/006/003/007/010

Reflection of electromagnetic waves...

D208/D302

Thus, Eq. (6) makes it possible to obtain the coefficient of reflection for any parameters of the plasma and of the dielectric, space dispersion being taken into account. The authors express their thanks to Ya. B. Fainberg and G. Ya. Lyubars'kyy. There are 7 references, 5 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: M. Lampert, Phys. Rev., 102, 299, 1959; and G. Reuter, E. Sondheimer, Proc. Roy. Soc., 195, 336, 1949.

ASSOCIATION: Fizyko-tekhnichnyy instytut AN USSR (Physicotechnical Institute, AS UkrSSR), Khar'kov

SUBMITTED: January 3, 1961

Card 6/6

AMR

Structure

30

95. Kurylo, A., Diagram for the calculation of reinforced concrete plates (in Polish), *Inten. Budown. B.*, 1, 166 (62), Apr. 1951.

Simple formula and diagram are presented for direct dimensioning simply supported and continuous reinforced-concrete plates, taking into account their so far unknown dead weight. The calculation of bending moments is unnecessary, the results depending directly on the (uniformly distributed) working and permanent loads  $p_0 = p + s$  and the span of the plate (real or fictitious  $l$ ).

W. Olczak, Poland

Jan '52

B. S. L. METALLURGICAL LITERATURE CLASSIFICATION

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"New results from testing spiral reinforced concrete columns."p.377 (INZYNIERIA I  
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Reinforced Concrete Construction

Results of new tests with reinforced concrete columns with slanted reinforcement. Stroi.  
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Kuryllo A. Research on Hooped Concrete Columns.

"Studia i prace Inst. Techn. Budowl. No. 210, Warszawa, 1954, Budowni i Arch, 18 pp, 35 figs, 16 tabs.

The research covered octagonal columns with circular cores, and columns with square sections and square cores. The aim was to demonstrate how changes in sections and in the pitch of the turn influence capacity of hooped concrete columns. It has been shown that sufficient information about the principles of computation and designing may be obtained experimentally only. When capacity is increased, the greatest part is played by the hooped reinforcement. Concrete resistance may be as low as  $R_{ct} = 110 \text{ kg/cm}^2$  without affecting columns capacity. Defining and testing the design of hooped concrete columns with circular cores is best done with the empirical formulae derived by the author.

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